

ABSTRACT

The invention provides a color processing system comprising an image capture device for capturing a scene and providing first color image data representative of the scene. A color space transformer is coupled to the image capture device for transforming the first color image data to second color image data. A first display device is coupled to the color transformer. The first display device displays the scene as represented by the second color image data. The color transformer includes a processor programmed to perform a matrix operation upon the first color image data by selecting matrix elements from a look up table (LUT) comprising pre-computed values.